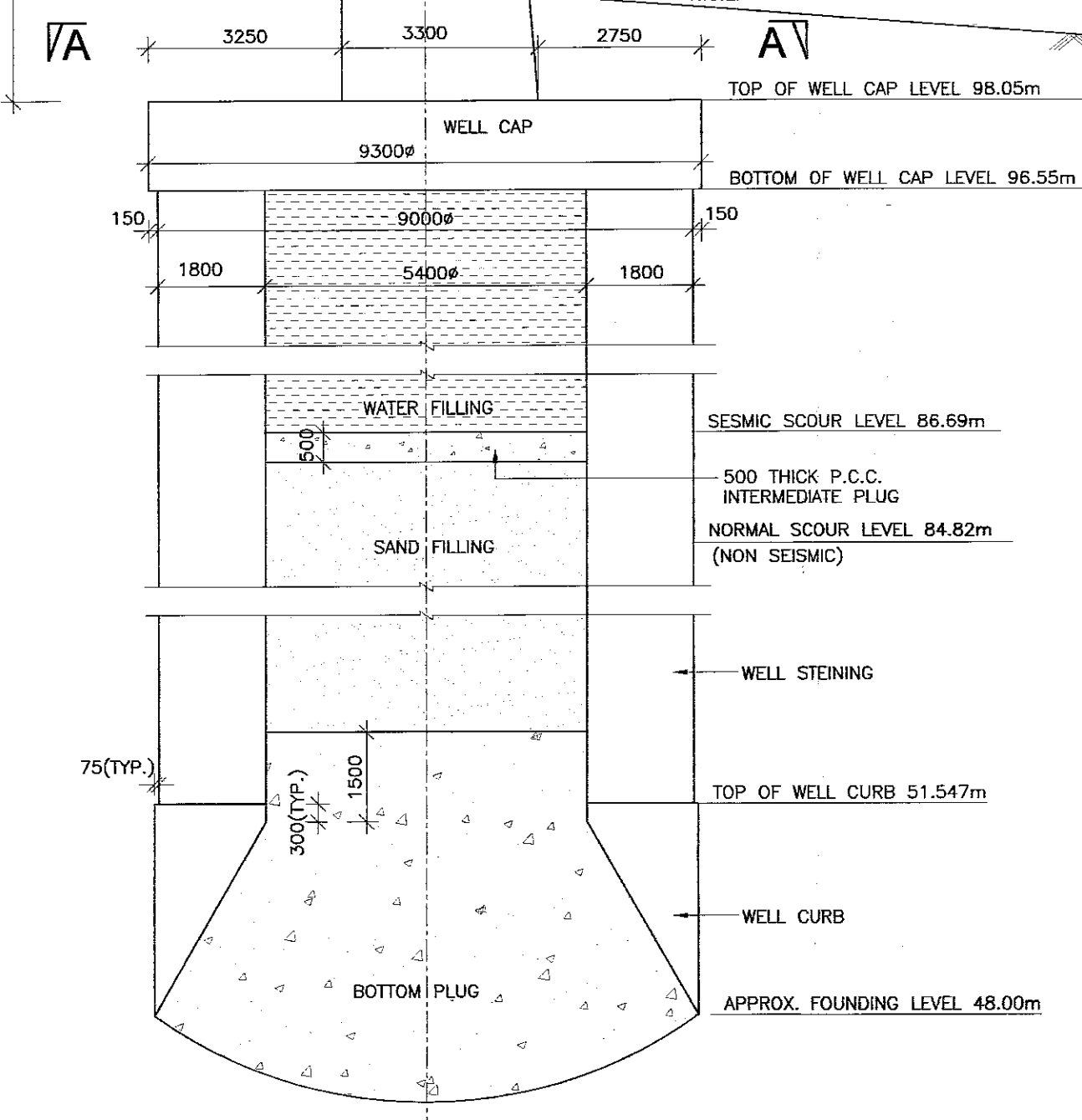
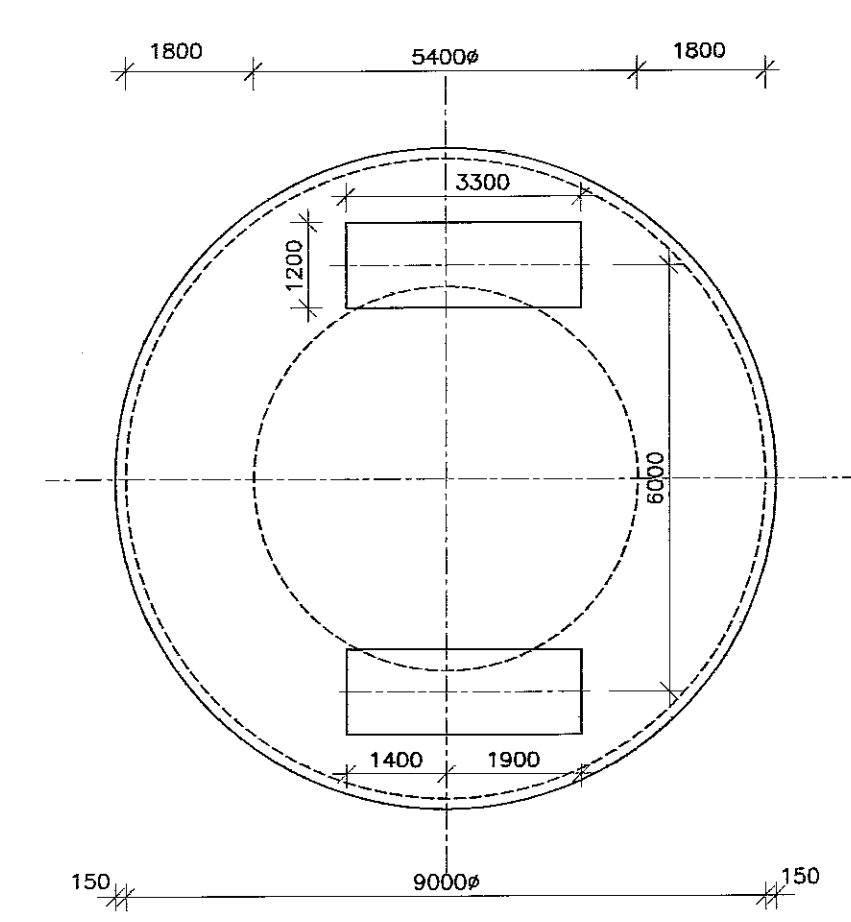


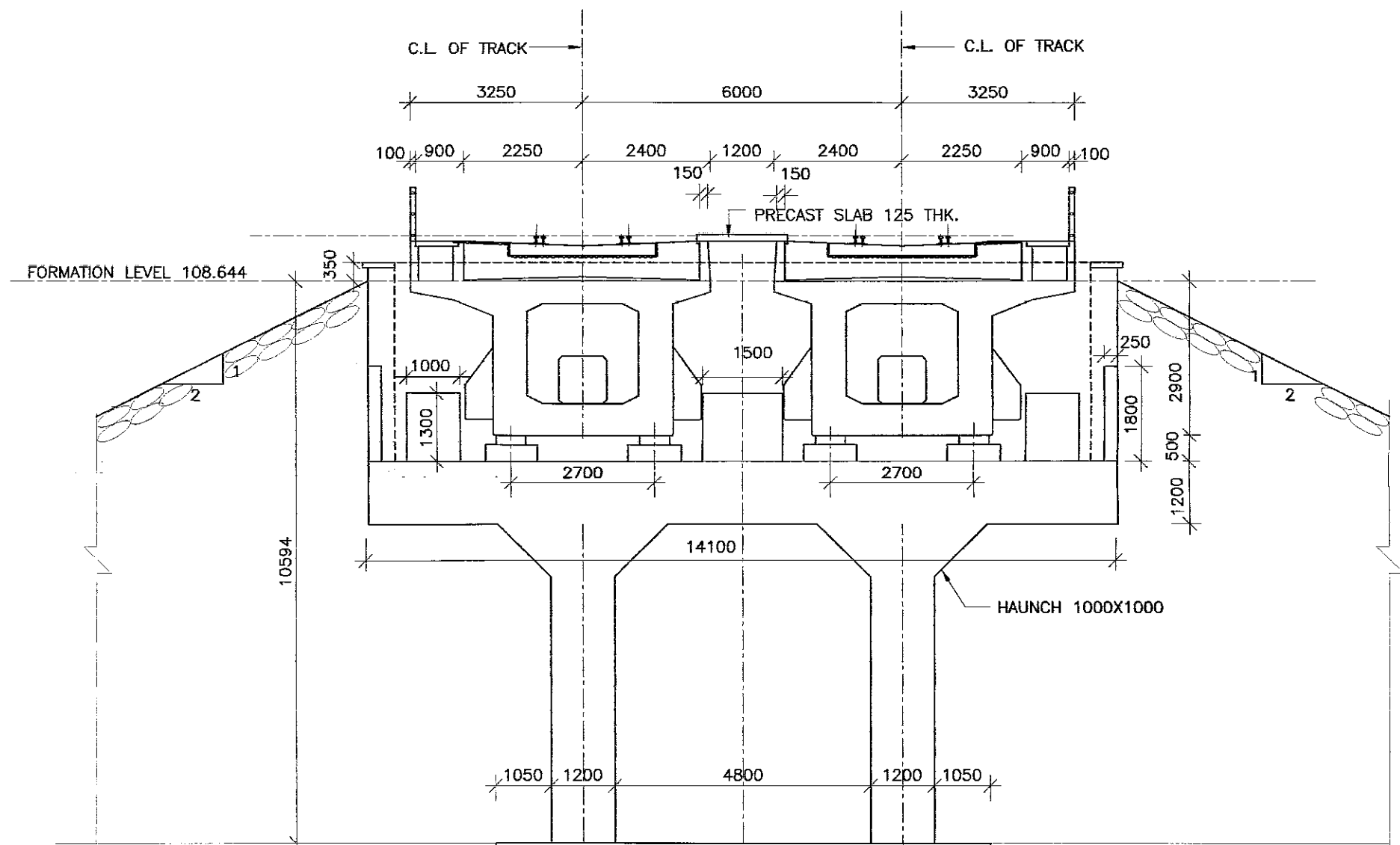
PLAN AT ABUTMENT CAP



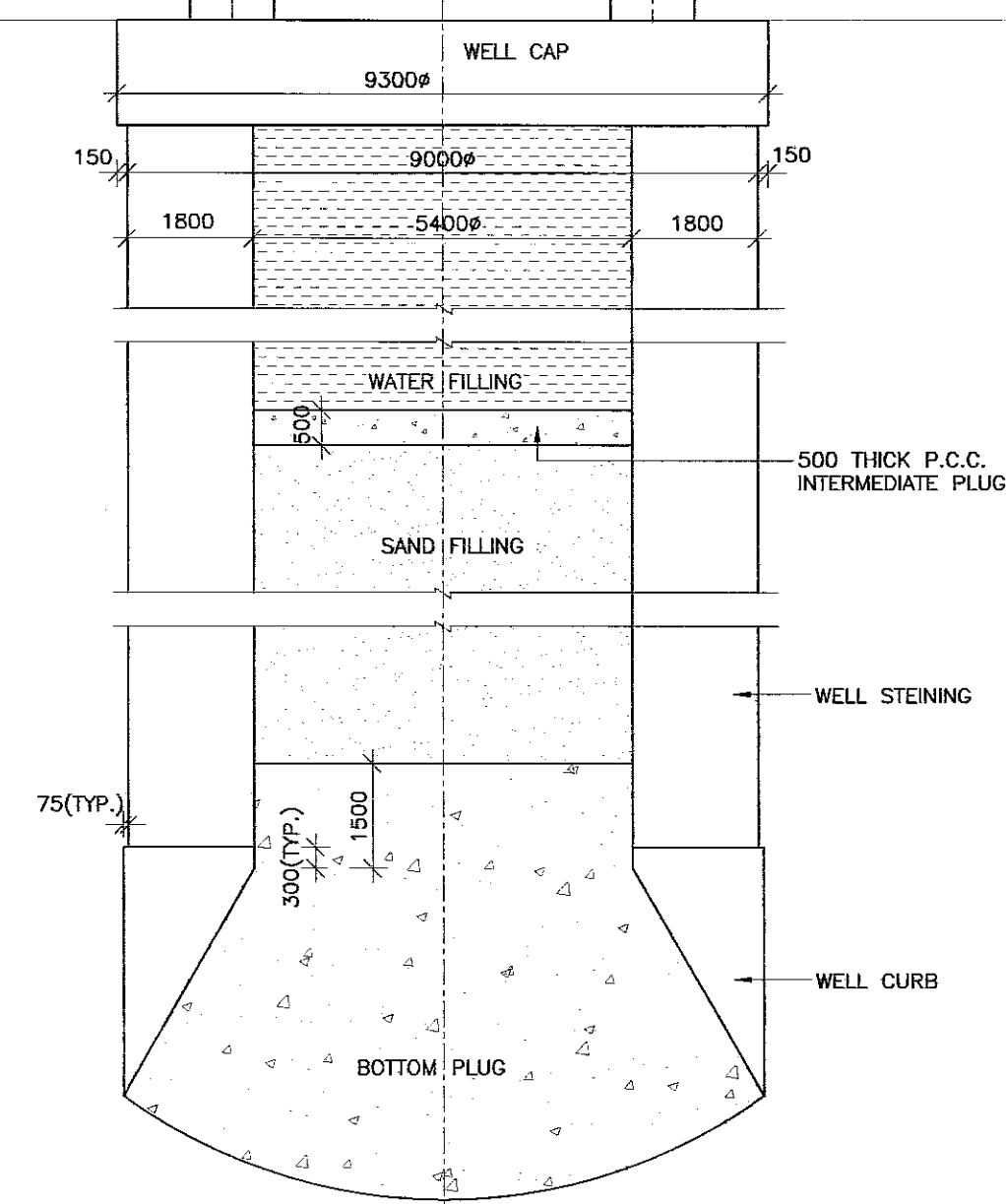
DETAIL OF ABUTMENT A1 & A2



SECTION AT A-A



VIEW AT B-B



NOTES:-

- ALL DIMENSIONS ARE IN MILLIMETERS AND LEVELS ARE IN METER. ALL DIMENSIONS ARE TO BE READ AND MEASURED.
- DESIGN CRITERIA-----
 - I.R.S. BRIDGE RULES.
 - I.R.S. CONCRETE BRIDGE CODE.
 - I.R.S. BRIDGE SUB-STRUCTURE AND FOUNDATION CODE.
 - I.R.S. WELL AND PILE FOUNDATION CODE.
- LOADING ----- I.R.S. D.F.C. LOADING WITH 32.5 T. AXLE LOAD.
- EXPOSURE CONDITION : MODERATE
- CONCRETE GRADE ADOPTED:-

ABUTMENT AND PIERS WELL FOUNDATION:-

 - WELL STEINING & WELL CURB ----- M-30
 - WELL CAP ----- M-30
 - ABUTMENT PIER AND ABUTMENT PIER CAP ----- M-30
 - RESTRAINER/FLYING ----- M-30
 - BOTTOM AND INTERMEDIATE PLUG ----- M-20(PCC).


PSC GIRDER:-

 - PSC BOX GIRDER ----- M-45.
 - WEARING COAT ----- M-45.
- LEVELLING COURSE ----- M-15
- MINIMUM COVER SHALL BE 75MM FOR WELL/WELL CAP, ABUTMENT AND PIERS AND 50MM FOR OTHER MEMBERS.
- ALL REINFORCEMENT SHALL CONSIST OF TMT/HYSD BARS OF GRADE Fe500 CONFORMING TO IS: 1786-1985 WITH MINIMUM YIELD STRENGTH OF 500N/mm²
- EARTH WORK ON APPROACHES OF THE BRIDGES SHALL BE AS PER EMPLOYER REQUIREMENT.
- ALL REINFORCEMENT TO BE USED SHALL BE TREATED BY ANTICORROSIVE TREATMENT SPECIFIED IN EMPLOYER'S REQUIREMENT
- SAFETY AND PROTECTION OF THE PROPOSED WORK AND SAFETY AND PROTECTION FOR THE RUNNING TRAINS ON THE EXISTING LINES IS TO BE ENSURED BY THE CONTRACTOR.
- EXCAVATION/DISMANTLING OF ANY PORTION OF THE EXISTING BRIDGE OR IN ITS VICINITY OR ANY ELEMENT OF EXISTING PERMANENT WAY OR ANY WORK AFFECTING SAFETY OF THE EXISTING BRIDGE /PERMANENT WAY OR SAFETY OF THE RUNNING TRAINS WILL REQUIRE APPROVAL OF THE CONCERNED ZONAL RAILWAY AND COMPLIANCE OF THE SAFETY REQUIREMENT AS DIRECTED BY THE CONCERNED ZONAL RAILWAY.
- BEHIND ABUTMENTS & WING WALLS BACK FILL MATERIAL SHALL BE PROVIDED AS PER EMPLOYER REQUIREMENT.
- STONE PITCHING ON SLOPES OF BANK ON APPROACHES OF BRIDGE SHALL BE PROVIDED UP TO 300 MM ABOVE H.F.L.
- SPHERICAL BEARING SHALL BE AS PER PROVISION IN EMPLOYER REQUIREMENT.
- FORMATION LEVEL/GROUND LEVEL/H.F.L/ DISCHARGE/ VERTICAL CLEARANCE/FREEBOARD/C.L. DISTANCE OF BRIDGES/ SOFFIT LEVEL OF EXISTING BRIDGE TO BE VALIDATED BEFORE EXECUTION.
- CONSTRUCTION METHODOLOGY STATEMENT IN TERMS OF EMPLOYERS REQUIREMENT SHOULD BE PREPARED AND SUBMITTED FOR APPROVAL BEFORE EXECUTION OF WORKS.
- WORK WILL BE EXECUTED AS PER EMPLOYERS REQUIREMENT AND SPECIFICATION CONTAINED IN THE CONTRACT AGREEMENT.
- PROVISION FOR O.H.E. MAST TO BE MADE OVER PIERS AS PER EMPLOYER REQUIREMENT.
- TRANSITION SYSTEM IN APPROACHES SHALL BE AS PER PROVISION IN EMPLOYER REQUIREMENT.
- LWR FORCES SHALL BE CONSIDERED AS PER PROVISION IN EMPLOYER REQUIREMENT.
- PROTECTION WORKS SHALL BE PROVIDED AS PER EMPLOYER REQUIREMENT.
- THIS DRAWING SHALL BE READ IN CONJUNCTION WITH RELEVANT OTHER DRAWINGS.

IMPORTANT NOTE:-

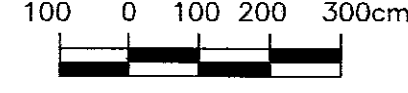
ALL DIMENSIONS, LEVELS AND OTHER DETAILS GIVEN IN THE DRAWING ARE INDICATIVE ONLY.


DFC LOADING (32.5T AXLE LOADING)

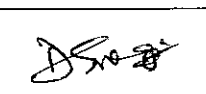

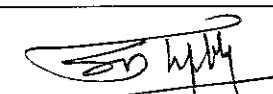
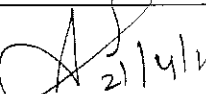
CLIENT: DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LTD. 

NAME OF WORK: PROPOSED NEW SONE BRIDGE OVER RIVER SONE BETWEEN SONNAGAR AND DEHRI- ON- SONE STATION (93x30.726m C/C OF BEARING PSC BOX GIRDER)

GENERAL ARRANGEMENT
TYPICAL ABUTMENT & FOUNDATION

SCALE	DRG. NO.	DFCC/RCED/DFCCIL-SONE BRIDGE/GA
	SH. NO.	2 OF 4
	DATE	APRIL-2013
REV.	RO	

 THE INFRASTRUCTURE PEOPLE

			
(D.S. NEGI) J.G.M./DESIGN/RITES	(ANIL KHANNA) G.M./DESIGN/RITES	A.M./MGS/DFCC	C.P.M./MGS/DFCC